



*RDE Command*



Briefing For: 40mm Industry  
Day

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40 mm TDPs

Review, Clean and 3D

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# Introduction

Objective: To provide an update of the ongoing technical review of the 40mm Technical Data Packages. The technical reviews will include the generation of Detailed Specifications and have a three-dimensional feature added to the drawings.





# TDPs Affected

- High Velocity (MK19 Mod3 GMG)
  - M385A1 Practice
  - M918 Practice (“Flash-Bang”)
  - M430A1 High Explosive Dual Purpose (HEDP)
- Low Velocity (M203/M79)
  - M781 Practice (“Orange Dye”)
  - M583A1 White Star Parachute (“Illumination”)
  - M433 High Explosive Dual Purpose (HEDP)





# Outline

## A. Review the TDP

1. Drawings
2. Specifications (Standardize Testing)
3. Packaging Requirements

## B. Generate DTL Specifications as required.

## C. Generate 3D drawings

## D. Release by ECP

## E. ERR the TDP

## F. Continue to improve by ECP





# What This Means

- A better TDP set-up for a Systems type contract.
- Up-to-date Detailed Specifications
- Better understanding and improved visualization through 3d.
- Reduced number of ECPs and RFDs and RFWs.
- Better product





# Detailed Specifications

- **M433** – Consolidated 9 specifications into 1:
  - M118 Ctg Case Assembly, M118 LAP
  - M118 & M195 Plug Base Powder Charge
  - Liner for Metal Parts Metal Parts
  - Projectile Metal Parts
  - Spitback Assembly for Metal Parts LAP
  - Ctg Case Loading
  - M118 & M195 Cup
  - Case, Ctg, 40MM, M118,
  - Ctg Case LAP
- **M918** – Separate Projectile and Cartridge LAP
- **M385** – Separate Projectile and Cartridge LAP
- **M550** Fuze
- **M550** Fuze Escapement
- **M583/M661/M662** – Consolidated 4 specifications into 1:
  - M195 Ctg Case
  - M118 & M195 Cup Powder Charge Assembly, M195 LAP
  - M118 & M195 Plug Base
  - Ctg Case Loading
- **M781** – Completed; Available via Website
- **M169** Case
- **M430A1** – Consolidated 3 specifications into 1:
  - Body Assembly for Metal
  - Spitback Assembly for Metal Parts LAP
  - Liner for Metal Parts
- **M549A1** Fuze







# IIL-DTL Major Change

- Replaced MIL-STD-105 (AQL) with MIL-STD-1916
  - Verification (VL) IV for majors & VL II for minor defects
  - Criticals - Automated Acceptance Inspection Equipment (AAIE)
- Consolidate Specifications as much as possible
  - Eliminated redundant testing
- New format in accordance with MIL-STD-961E
- Updated Canceled Specifications
- Incorporated Outstanding ECPs





# Status



- All changes have been ECPed
- Awaiting CCB board decision
- Approved ECPs will be ERRed
- Any additional changes will go in under a new ECP







# Conclusions

- All TDPs were converted to 3D format
- All Specifications are DTL Specs
- If there are errors in the TDPs will be changed by ECP process
- Reviews by services and contractors are ongoing. Changes will be made by ECP





# Questions



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